

### **D15FR60V**

# General Rectifying Diodes 600V, 15A

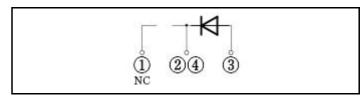
#### **Feature**

- Permit high current with a small package
- Pb free terminal
- · RoHS:Yes

#### **OUTLINE**



#### **Equivalent circuit**



#### Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	$V_{RRM}$		600	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=125°C	15	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C		Α
Surge forward current	I <sub>FSM1</sub>	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C 670		Α

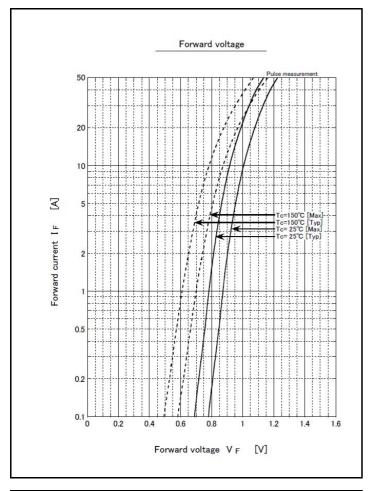
<sup>\* :</sup> See the original Specifications

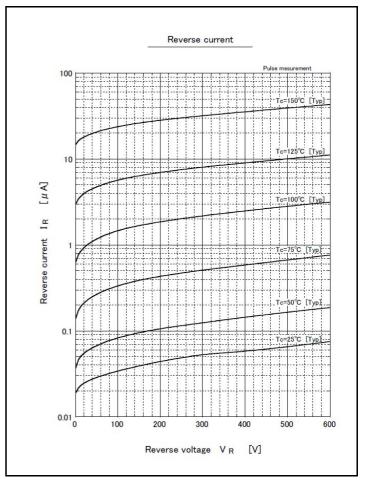
#### **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

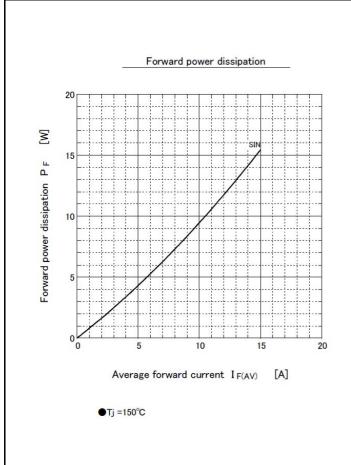
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=15A, Pulse measurement			1.05	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-c)	Junction to lead, With heatsink			1.6	°C/W

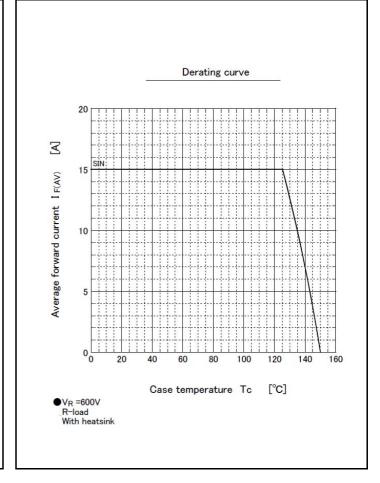
<sup>\* :</sup>See the original Specifications

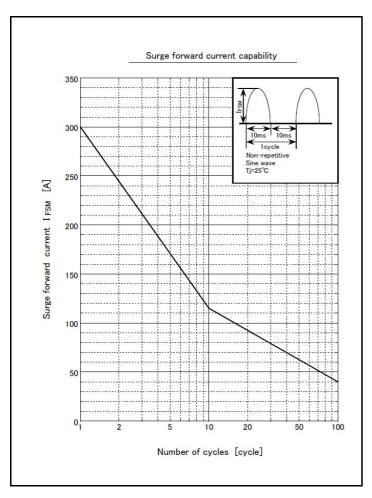
#### **CHARACTERISTIC DIAGRAMS**

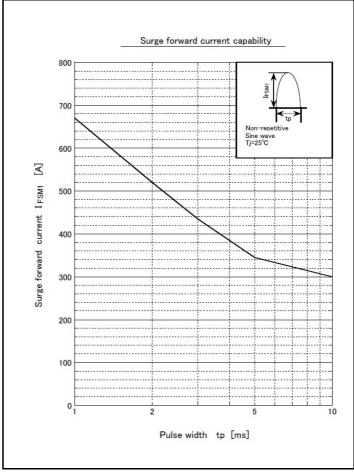


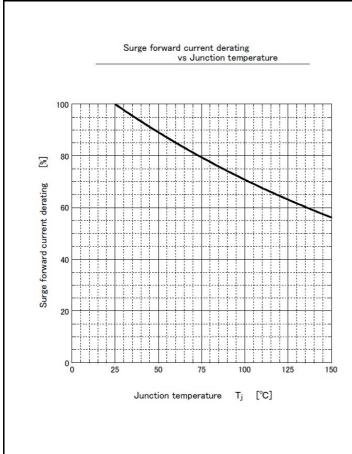


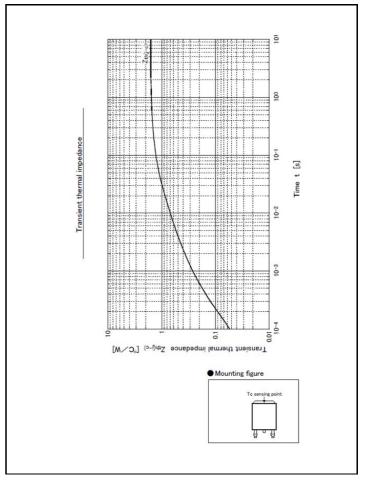








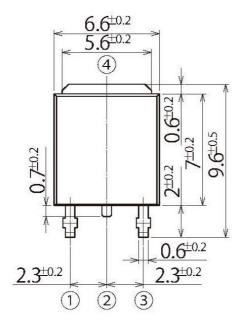


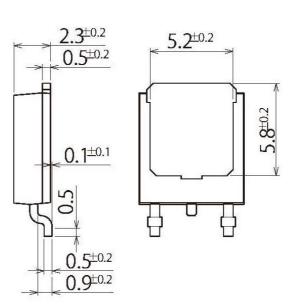


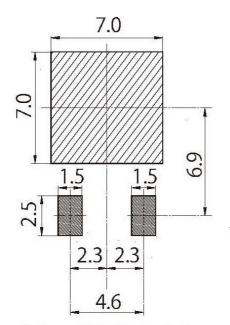
scale: 4/1

## G5

JEDEC Code	TO-252AA similar		
JEITA Code	-		
House Name	FR		







Referential Soldering Pad

 $\bullet$  Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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#### [Special applications]

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#### (Specific applications)

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